Massachusetts Department of Environmental Protection
Bureau of Resource Protection – Watershed Permitting Program

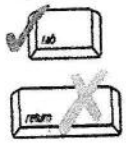
Sanitary Sewer Overflow (SSO)/Bypass Notification Form

FOR DEP USE ONLY

Tax Identification Number

A. Reporting Facility

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Facility Information
   HULL, MA WPCF — Reporting Sewer Authority
   MA0101231 — Permit #
2. Authorized Representative Transmitting Form:
   Aram — First Name
   Varjabedian — Last Name
   781-925-0906 — Telephone No.
   PROJECT MANAGER — Title
   avarjabedian@woodardcurran.com — E-mail Address

B. Phone Notifications:

See DEP Regional Office telephone and fax numbers at the end of this form.

1. **MassDEP staff** contacted: DAVID BURNS → (first name / last name) — spoke to D. B.
   Date/Time contacted: 4/14/16 (Date) 1:40 (Time) ☐ am ☑ pm
2. **EPA staff** contacted: ~~DAVID~~ TURIN (first name / last name) ← MSG LEFT
   Date/Time EPA contacted: 4/14/16 (Date) 1:50 (Time) ☐ am ☑ pm
3. Board of Health contacted: JOYCE (First Name) SULLIVAN (Last Name) MSG LEFT
   Date/Time contacted: 4/14/16 (Date) 1:57 (Time) ☐ am ☑ pm

ALSO: EMAIL NOTIF. TO ALL AT 5:28PM 4/14/16

4. Others notified (select all that apply):
   ☐ Conservation Commission
   ☐ Harbormaster ☐ Shellfish Warden ☑ Division of Marine Fisheries
   ☐ Downstream Drinking Water Supplier ☐ Watershed Association
   ☐ Beach Resource Manager ☐ Other: RYAN JOYCE - MSG LEFT 1:55 PM 4-14-16 (specify)

C. SSO Information

1. SSO Discovered: 4/14/16 (Date) 8:30 (Time) ☑ am ☐ pm
   By: PAT OWENS / JOHN CURRIER - W+C STAFF
2. SSO Stopped: 4/14/16 (Date) 8:32 (Time) ☑ am ☐ pm
3. SSO Discharge from: ☐ Sanitary Sewer Manhole ☐ Pump Station
   ☐ Backup into Property ☑ Other: 12" PIPING LAYING ON GROUND AT WPCF (specify)
4. SSO Discharge to: ☑ Ground Surface (no release to surface water) GRASS AREA
   ☐ Direct to Receiving Water (surface water)
   ☐ Catch basin to Receiving Water (surface water)
   ☐ Backup into Property Basement

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C. SSO Information (cont.)

Location: At Hull WPCF – 1111 Nantasket Ave - AREA by PRI CLAR #1 IN GRASS.
(Description of discharge site or closest address)

5. Estimated SSO Volume at time of this Report: 50-75 GALLONS

Method of Estimating Volume: Pipe sections were not full
ASSUME 2 sections ½ full - Approx 59 GAL.

6. Cause of SSO Event:

☐ Rain Event ☐ Pump Station Failure ☐ Insufficient Capacity in System

☐ Treatment Unit failure

☐ Sewer System Blockage: ☐ Pipe Collapse ☐ Root Intrusion ☐ Grease Blockage

☑ Other: (Specify) PLANNED SEPARATION of piping so that pipes could by returned to owner. Pipes were being rented for emergency back up pumping from influent wetwell to PRIMARY D-BOX.

7. Corrective Actions Taken:
→ RELEASE WAS immediately stopped by RAISING UP pipes. CALLED in VACTOR truck to assist with disassembly + draining.

Impact Area cleaned and/or disinfected: ☑ Yes ☐ No
Quicklime applied to AREA where release occurred.

Corrective Actions Completed: ☑ Yes ☐ No

D. Comments/Attachments/Follow-up

I wish to provide (select all that apply):

☑ Attachment ☐ Additional comments below: ☐ No additional comments or attachments

Additional comments and planned actions:
See Attached Additional information + pictures

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E. Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Aram Vanjabedian — Signature of Authorized Representative

4-18-16 — Date Signed

Please keep a copy of this report for your records. When submitting additional information, include the MassDEP Incident Number from this report.

MassDEP Regional Office and EPA Telephone and Fax Numbers:

Northeast Region	Phone: 978-694-3215	Fax: 978-694-3499
Southeast Region	Phone: 508-946-2750	Fax: 508-947-6557
Central Region	Phone: 508-792-7650	Fax: 508-792-7621
Western Region	Phone: 413-784-1100	Fax: 413-784-1149
EPA Contact	Phone: 617-918-1870	Fax: 617-918-0870
DEP 24-hour emergency	Phone: 888-304-1133	

S.S.O. DATE: APRIL 14, 2016

SUMMARY OF ADDITIONAL INFORMATION RELATED TO S.S.O. TO INCLUDE CMOM/AOC REQUIRED INFO

A. Asset from which the unauthorized discharge occurred: Xylem/Godwin Pump rental piping that was on site for emergency use.

B. Location: Hull WPCF - 1111 Nantasket Ave, Hull, MA.

LAT / LON: Decimal Degrees **42.304844 / -70.899960** [approximate location on property]

C. Cause of unauthorized discharge: The 12-inch pipe had not drained out sufficiently after use. Uneven terrain for the piping layout did not allow for adequate draining of the piping. Separation of temporary steel piping on the plant site in the area of the primary clarifiers & distribution box. The location where the initial separation of pipes was made, was a high spot in the run of piping, where it was assumed draining of the pipes had occurred.

D. Unauthorized discharge was caused by: Separation of temporary steel piping on plant site by primary clarifiers & distribution box. The piping had not drained out sufficiently.

E. Last inspection date/maintenance/repair of failed asset: Unknown. The piping was last used on March 9, 2016. The 400-foot length of piping had a drain off port that was open after last use to drain the line. The drain valve was located approximately 375 feet away.

F. Date/Time unauthorized discharge began: SSO form section C-1 when reported by operator/contractor

G. Date/Time unauthorized discharge stopped: SSO form section C-2 when reported by operator/contractor

H. Source of Notification: 2-way radio communication at facility

I. Estimated gallons of wastewater released: SSO section C-5. Estimated – 50-75 gallons to grassy area adjacent to the piping as reported by operator/contractor.

J. Method of calculation of wastewater released: SSO section C-5. Visual estimate and calculation of gallons in that section of piping.

K. Details of the release: The unauthorized discharge was limited to the adjacent grassy area. There was NO release to any storm water catch basins, or any portion of the Town's MS4.

L. NO release to a wetland or surface water.

M. Measures taken to minimize volume of release and duration: SSO section C-7. Upon notice, the WPCF staff and contractor immediately raised the two sections of pipe to halt the discharge. Procedure for dismantling of pipe reviewed and additional plans put into place. A vactor truck service company was notified for assistance.

N. Measures taken to clean area: SSO form section C-7. The water that was released, quickly percolated into the ground and was free of any solids or debris. Quicklime was applied to the affected area.

O. Corrective actions taken: SSO section C-7. Quicklime was applied to the affected area

P. Date of last unauthorized discharge in same general location: Assuming general location means the Hull WPCF, August 17, 2015.

Convert Lat and Long to Address

Type the lat and long coordinate values and press Convert button. Reverse geocoded address will shown on the map below.

Latitude	Longitude	
42.304844	-70.899960	Convert

Example: 39.920770

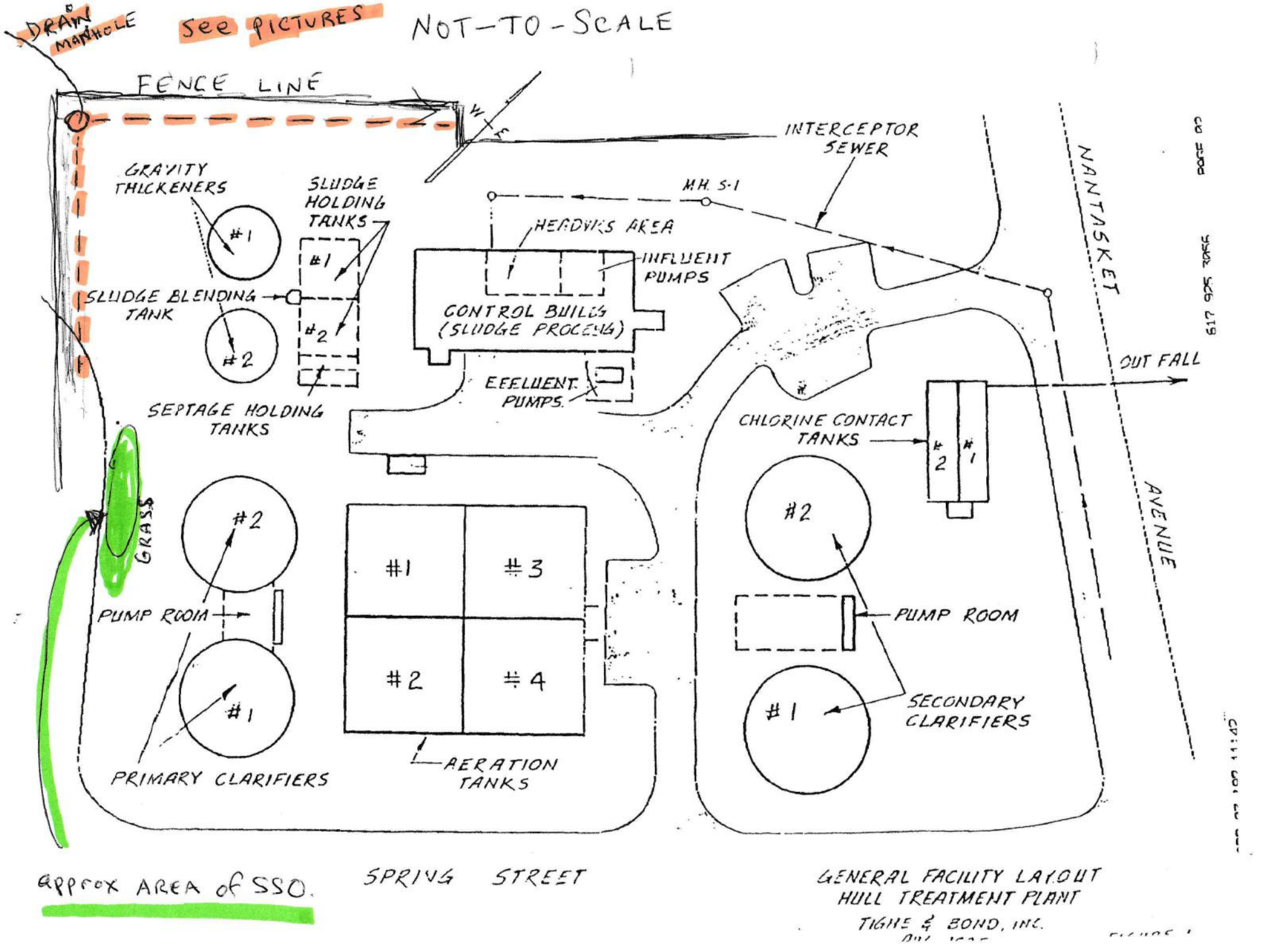
Reverse geocoded address:

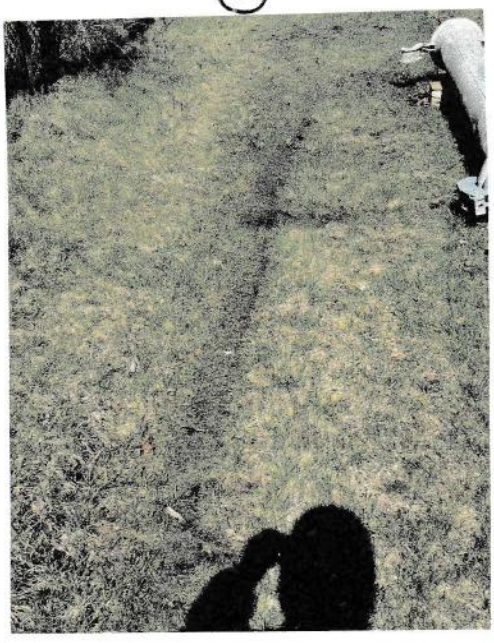
Hull, MA, USA

ALLERTON HARBOR

Route of DRAINAGE IF it were to occur

THERE WAS NO RELEASE TO WETLAND OR SURFACE WATER


DRAIN MANHOLE
See PICTURES
NOT-TO-SCALE
FENCE LINE
INTERCEPTOR SEWER
NANTASKET AVENUE
GRAVITY THICKENERS
#1
SLUDGE HOLDING TANKS
#1
#2
SLUDGE BLENDING TANK
#2
SEPTAGE HOLDING TANKS
M.H. S-1
HEADWKS AREA
INFLUENT PUMPS
CONTROL BUILD (SLUDGE PROCESS)
EFFLUENT PUMPS
OUT FALL
CHLORINE CONTACT TANKS
#2
#1
GRASS
#2
PUMP ROOM
#1
PRIMARY CLARIFIERS
#1
#3
#2
#4
AERATION TANKS
#2
PUMP ROOM
#1
SECONDARY CLARIFIERS
Approx AREA of SSO.
SPRING STREET
GENERAL FACILITY LAYOUT
HULL TREATMENT PLANT
TIGHE & BOND, INC.



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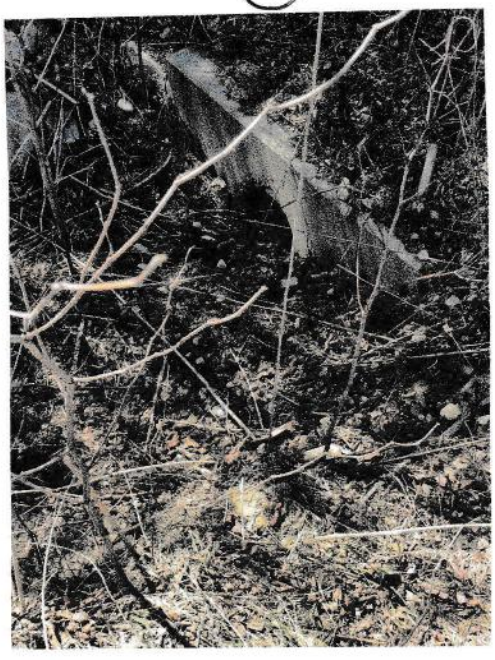

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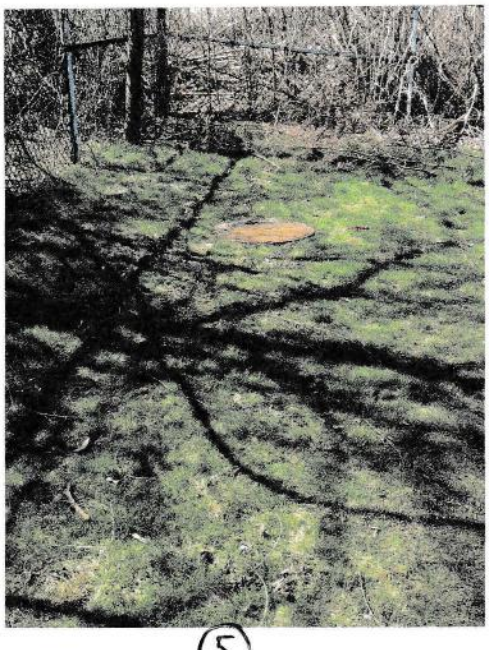

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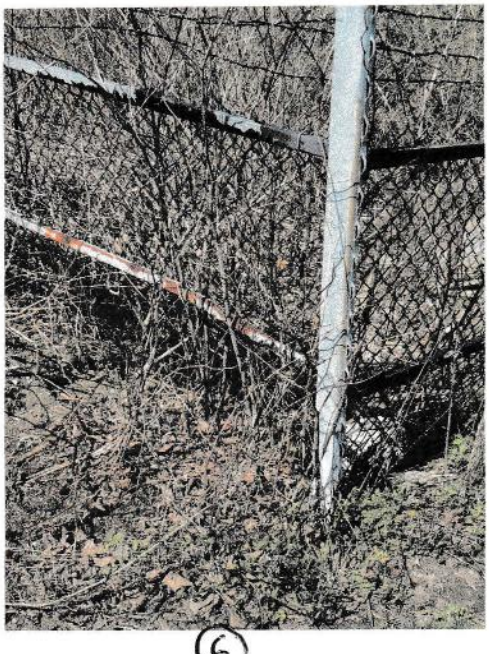


(6)

(2)

PICTURES 1 + 2 - GRASSY AREA where SSO occurred.

PICTURES 3 → 4 → 5 → 6 SHOW THE AREA/PATH OF DRAINAGE FROM THIS AREA IF IT WERE TO OCCUR.

Aram Varjabedian

From: Aram Varjabedian
Sent: Thursday, April 14, 2016 5:28 PM
To: 'Turin, David'; 'Burns, David (DEP)'; 'Joyce, Ryan (FWE)'; 'jsullivan@town.hull.ma.us'
Cc: 'Dow, James'; Frank Cavaleri; Kevin Stetson
Subject: Hull WPCF - MA0101231 - SSO - 04/14/16
Attachments: SSOpics1_041416.pdf; SSOpics2_041416.pdf

To All:

As a follow up to calls and messages left earlier today. As a result of the dismantling of the 12-inch piping system that has been at the plant since last fall, for use of the Godwin Pump for back-up influent pumping, there was a small release of gallons of residual sewage remaining in the pipes to the adjacent ground area where the first pieces were separated. The estimated release was 50 to 75 gallons. The piping run consisted of approximately 450 feet of 12-inch pipe, that started at the influent wet well and discharged to the primary effluent distribution box. The initial pipe separation was made in an area we had thought had sufficiently drained down, since this was a high point in the pipe run. However, we found that this was not the case. Both sides of the separated piping were immediately raised up by the assisting backhoe and also blocked up to stop any additional release of liquid.

The on-going dismantling of the pipe sections was made by elevating and draining the pipes to a lower area, one 10-ft section at a time. Since the pipe run was not level, there were some low areas. In these areas, there was accumulation of sewage and the drain port for the pipe run was not sufficient enough to drain the system out.

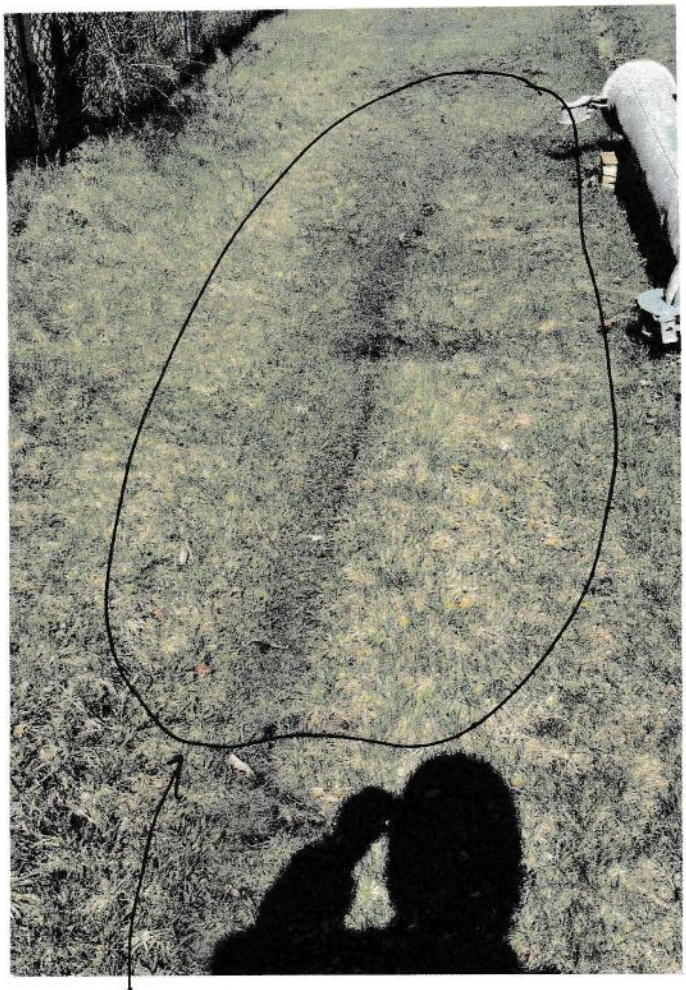
We initiated use of a small diaphragm pump to pump out much of the remaining liquid back into the facility. A vactor truck was called in to assist with vacuuming out the pipe sections so that other sections could be raised and drained out. Quicklime was applied to the affected grassy area. There was no run-off from the property.

I have attached a few pictures. A full SSO report will be submitted. Should you have any questions or concerns, please don't hesitate to contact me.

Sincerely,

Aram

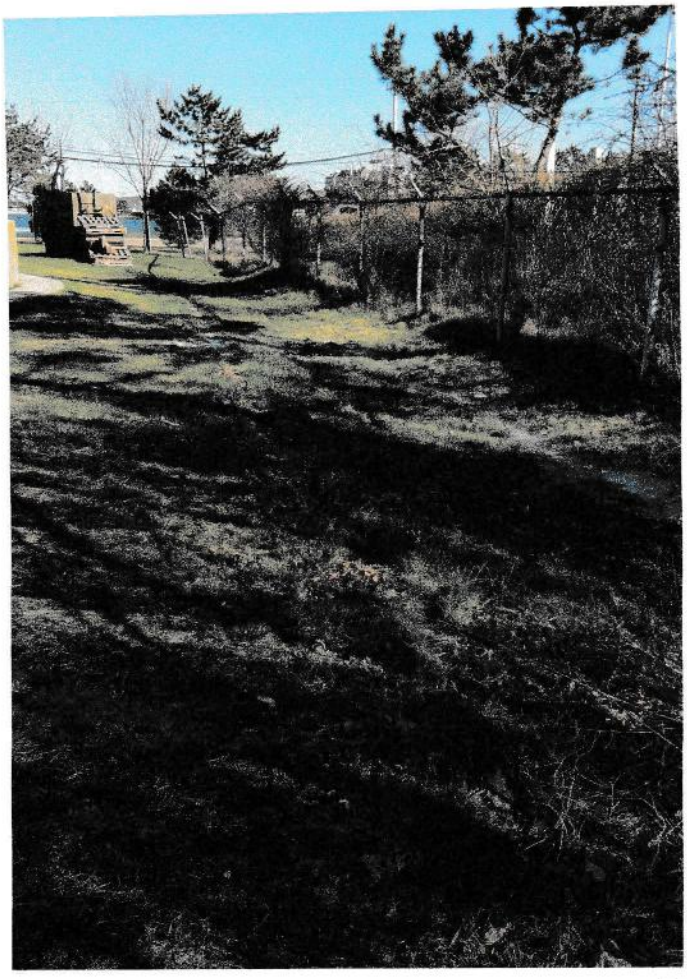
Aram Varjabedian
Plant Manager
Hull Wastewater Treatment Facility
1111 Nantasket Avenue |Hull, MA 02045
Phone 781.925.0906 | Fax 781.925.3056 | Cell 339.214.8334
www.woodardcurran.com

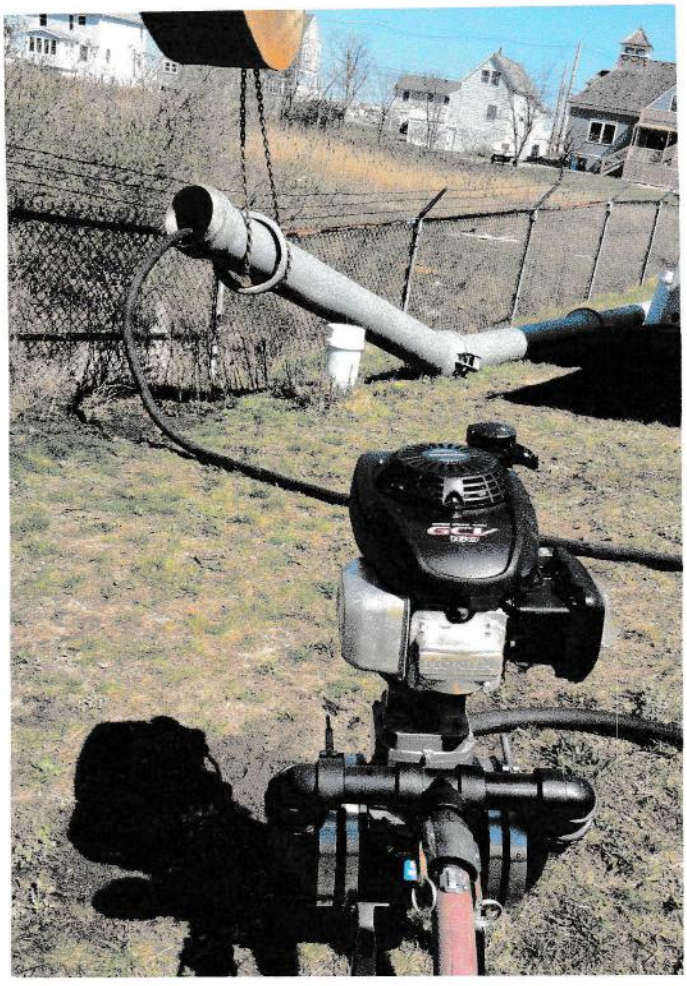


Affected area in grass where release occurred

Vacuuming out pipe sections before disassembly (primary D-Box in background)

Blocked up section of pipe to prevent spillage





Pumping out of pipe with diaphragm pump + BACKHOE RAISING of pipe to drain out back to influent wetwell

LIME applied to AREA of RELEASE

VACUUMING out of pipe before DISASSEMBLY